



# Service Bulletin

File in Section: -

Bulletin No.: PI0814A

Date: November, 2012

## PRELIMINARY INFORMATION

**Subject:** Steering Shudder (Vibration) During Slow Speed Maneuvers

**Models:** 2010-2013 Chevrolet Equinox  
2010-2013 GMC Terrain  
Equipped with Engine RPO LF1, LFW or LFX

This PI is being revised to update the Parts Information. Please discard PI0814.

### Condition/Concern

Some customers may comment they are experiencing a steering vibration, felt through the steering wheel and vehicle structure, combined with a moan noise. This condition is most noticed during low speed parking lot maneuvers or when the vehicle is stationary and the steering wheel is turned.

This condition may be caused by engine firing pulsations being transmitted into the steering system.

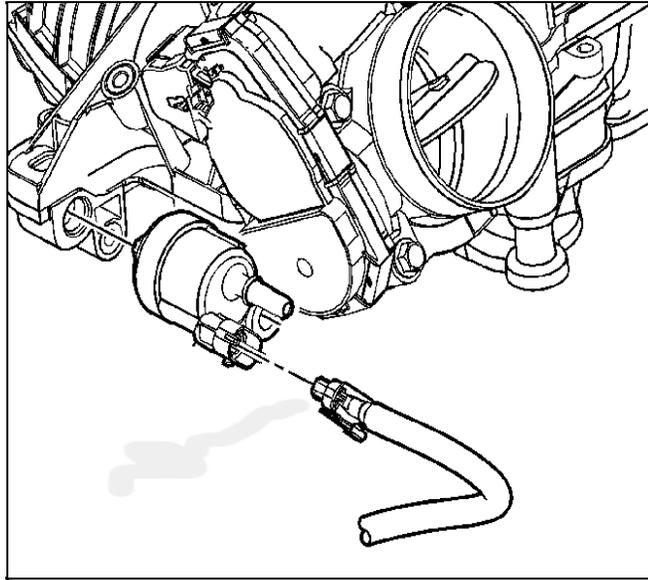
### Recommendation/Instructions

This condition can be corrected by replacing the following components: power steering gear inlet hose assembly, generator (alternator) assembly and the emission evaporative hose. The revised power steering hose assembly is longer and provides a dampening quality. The revised generator has an isolation pulley and the revised evaporative hose is designed to clear the revised power steering hose.

**Important:** When the revised components (hoses) are installed, they must not have contact with the underbody or components. Use care to position the hoses to prevent any contact with other components.

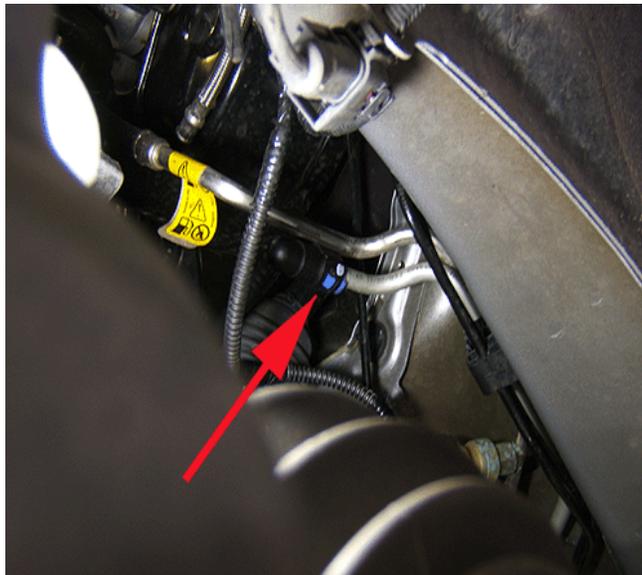
Use the following steps to install the revised components.

1. Install the revised generator. Refer to Generator Replacement in SI.
2. Install the revised power steering inlet hose. Refer to Power Steering Gear Inlet Pipe/Hose Replacement in SI. Leave the intake manifold cover off.
3. Install the revised evaporative emission canister purge hose assembly as follows:



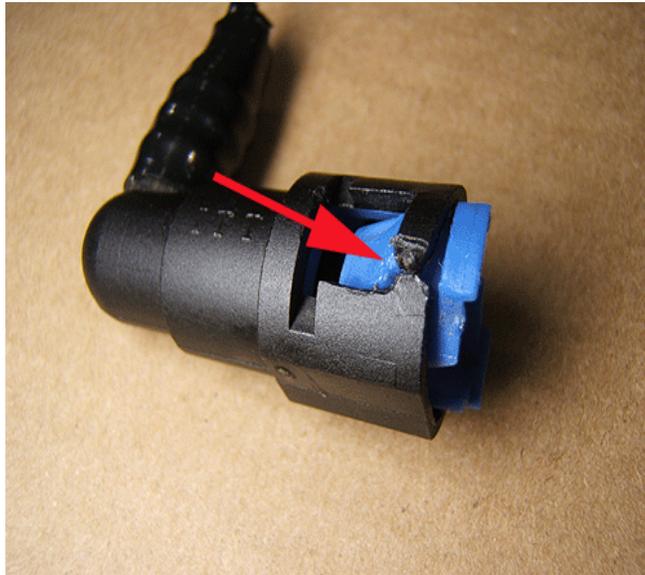
2900701

3.1. Disconnect the hose from the evaporative emission canister purge solenoid valve located by the base of the throttle body.



2900703

3.2. Disconnect the hose from the chassis to canister evaporative emission line.

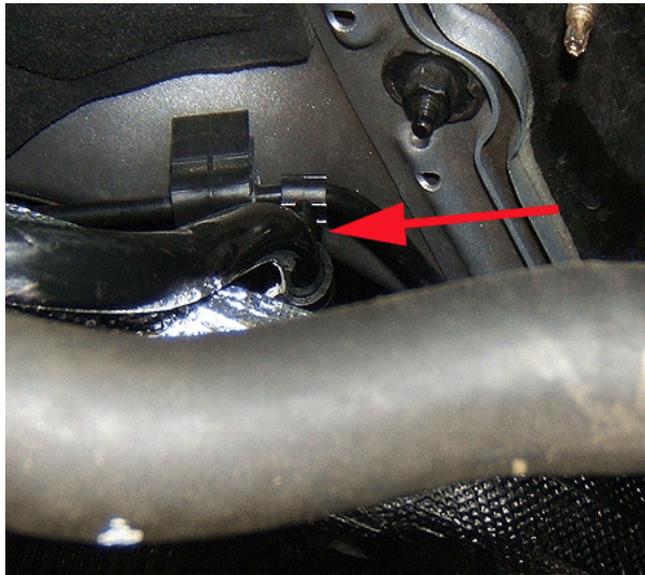


2900708

It may be necessary to cut the plastic connector on the hose if the blue plastic retention collar cannot be released. A new connector is part of the new hose assembly.

3.3. Remove the existing hose and install the new hose assembly.

Route the new hose in a way that avoids contact with chassis and body components. Connect both ends of the hose.



2900711

4. Install the clip as shown, connecting the new evaporative emission canister purge hose assembly to the black metal cross car brake pipe.
5. Inspect the new evaporative emission canister purge hose assembly and the revised power steering inlet hose to ensure no components are coming into contact with the new hose assemblies. If contact is present, loosen and reposition the new hose.
6. Fill and bleed the power steering system. Verify the fluid level. Repeat the bleed procedure, if necessary.
7. Reinstall the intake manifold cover.

Road test the vehicle and verify the condition is corrected. After the road test, inspect the components as described in step #5 above.

## Parts Information

**Important:** Please order these parts only as needed. Due to a limited supply of parts available, DO NOT order for dealer stock.

| <b>Part Number</b> | <b>Description</b>                              |
|--------------------|---|
| 22922927           | Hose Asm. - Power Steering Gear Inlet           |
| 22923419           | Hose Asm. - Evaporative Emission Canister Purge |
| 11562557           | Clip/Clamp                                      |
| 22962097           | Generator Assembly (MY 2010-2012)               |
| 22865612           | Generator Assembly (MY 2013)                    |

## Warranty Information

For vehicles repaired under warranty, use:

| <b>Labor Operation</b>   | <b>Description</b>  | <b>Labor Time</b> |
|--|---|-------------------|
| E9567*   | Install Revised Generator, Power Steering Gear Inlet Hose And Evap. Hose To Correct Steering Wheel Shudder during Low Speed Maneuvers | 3.2 hrs           |
| *This is a unique labor operation for bulletin use only. It will not be published in the Labor Time Guide. |   |                   |